

HYDRAULIC SYSTEM
EQUIP NUM: 1217
SERIAL NUMBER: RJS01135
H430-52055-0612

LABEL#: QC

SHOP JOB NUM : 0939528

SAMPLE SHIP TIME (days) : 6

COUNTY SANITATION DIST
. 2 - CALABASAS

RECEIVED DATE: 24-Feb-22

CAT D9T

Monitor Compartment

SILICON AND ALUMINUM ARE ELEVATED AND MAY INDICATE DIRT ENTRY. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. INSPECT FOR SOURCE OF DIRT ENTRY INTO THE SYSTEM. RESAMPLE IN 250 HOURS TO MONITOR.

Interp By: Tony Finney
Interpreted On: 25-Feb-22
SAMPLE INFORMATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Id | H430-52055-0612 | H430-51102-0914 | H430-50132-0309 | H430-49303-0516 |
| Lab Date | 24-Feb-22 | 12-Apr-21 | 11-May-20 | 30-Oct-19 |
| Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Comp Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Meter On Fluid | 19495 | | | |
| Fluid Brand | PHILLIPS66 | PHILLIPS66 | PHILLIPS66 | PHILLIPS66 |
| Fluid Weight | 10W | 10W | 10W | 10W |
| Fluid Type | | | | |
| Fluid Change | N | N | N | N |
| Filter Change | Y | Y | Y | Y |
| Kidney Loop | U | U | U | U |

WEAR LEVELS / ADDITIVES

| | | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-------------------------------------------------------------------------|------------|-----------|-----------|-----------|-----------|
| ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT] | | | | | |
| Cu | Copper | 25 | 18 | 16 | 6 |
| Fe | Iron | 21 | 16 | 16 | 7 |
| Cr | Chromium | 3 | 3 | 3 | 0 |
| Al | Aluminum | 13 | 8 | 8 | 0 |
| Pb | Lead | 0 | 0 | 3 | 0 |
| Sn | Tin | 0 | 3 | 0 | 0 |
| Si | Silicon | 45 | 36 | 33 | 22 |
| Na | Sodium | 10 | 15 | 9 | 8 |
| K | Potassium | 5 | 2 | 3 | 0 |
| Mo | Molybdenum | 1 | 2 | 3 | 0 |
| Ni | Nickel | 1 | 0 | 1 | 0 |
| Ag | Silver | 0 | 0 | 0 | 0 |
| Ti | Titanium | 4 | 3 | 3 | 0 |
| V | Vanadium | 0 | 0 | 0 | 0 |
| Ca | Calcium | 2693 | 2769 | 2958 | 3101 |
| P | Phosphorus | 1046 | 979 | 1096 | 1140 |
| Zn | Zinc | 1135 | 1083 | 1224 | 1246 |
| Mg | Magnesium | 15 | 13 | 15 | 12 |
| Ba | Barium | 0 | 0 | 0 | 0 |
| B | Boron | 6 | 5 | 5 | 0 |
| Sb | Antimony | 0 | 0 | 0 | 0 |

PREVIOUS SAMPLE

UNKNOWN HOURS ON THE OIL. SILICON AND ALUMINUM ARE ELEVATED AND MAY INDICATE DIRT ENTRY. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT FOR SOURCE OF DIRT ENTRY INTO THE SYSTEM. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.

 For additional sample history, go to: my.cat.com
CONDITION / CONTAMINATION

| | | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|------------------------------------------|--------------------|-----------|-----------|-----------|-----------|
| VISCOSITY (CENTISTOKES) ASTM D445 | | | | | |
| V100 | Viscosity at 100 C | 8.050 | 8.6 | 8.0 | 8.0 |

INFRARED (UFM) ASTM E2412

| | | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-----|-----------------|-----------|-----------|-----------|-----------|
| ST | Soot | 0 | 0 | 0 | 0 |
| OXI | Oxidation | 4 | 3 | 3 | 3 |
| SUL | Sulfur Products | 16 | 15 | 14 | 12 |
| NIT | Nitration | 5 | 5 | 4 | 4 |

WATER

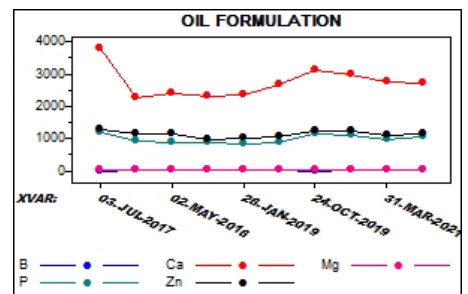
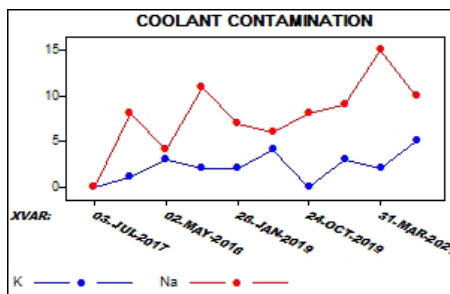
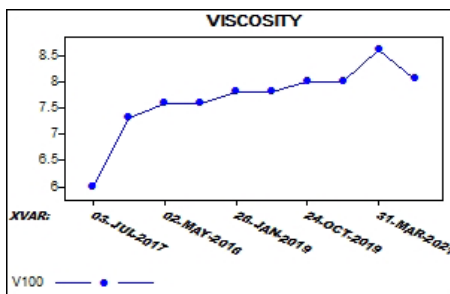
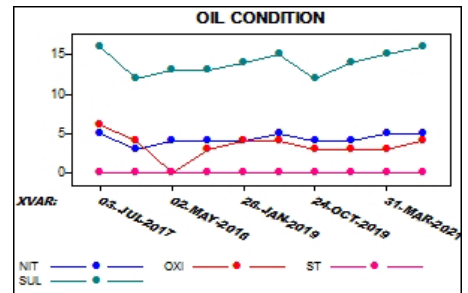
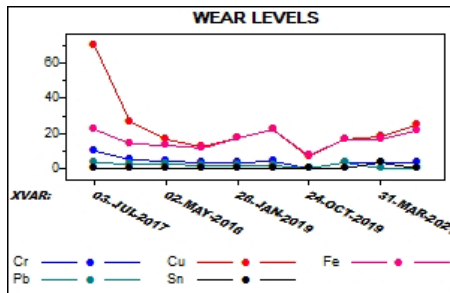
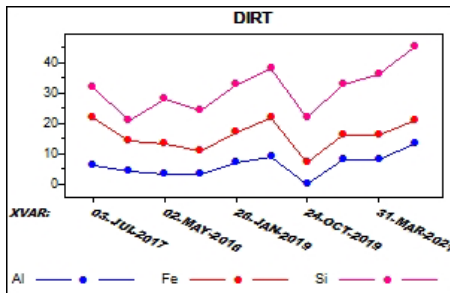
| | | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|---|-------|-----------|-----------|-----------|-----------|
| W | Water | N | N | N | N |

ANTIFREEZE

| | | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|---|------------|-----------|-----------|-----------|-----------|
| A | Antifreeze | N | N | N | N |

CLEANLINESS

| | | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|--------------------------------------------------------------|-----------------|-----------|-----------|-----------|-----------|
| PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406 | | | | | |
| ISO | ISO Code Rating | 16/13 | 18/17 | 20/16 | 20/17 |
| 4µ | 4µ | 31344 | 3248 | 25368 | 24137 |
| 6µ | 6µ | 510 | 1619 | 7326 | 7620 |
| 10µ | 10µ | 106 | 1391 | 1401 | 2177 |
| 14µ | 14µ | 52 | 1269 | 552 | 1232 |
| 18µ | 18µ | 38 | 1208 | 405 | 1059 |
| 21µ | 21µ | 29 | 1163 | 343 | 960 |
| 38µ | 38µ | 8 | 741 | 121 | 471 |
| 50µ | 50µ | 5 | 506 | 77 | 321 |



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>

FINAL DRIVE REAR
EQUIP NUM: 1217
SERIAL NUMBER: RJS01135
RIGHT
CAT D9T
No Action Required
Interp By: Tony Finney
Interpreted On: 25-Feb-22
H430-52055-0621

LABEL#: QC

SHOP JOB NUM : 0939528

SAMPLE SHIP TIME (days) : 6

COUNTY SANITATION DIST
. 2 - CALABASAS

RECEIVED DATE: 24-Feb-22

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

SAMPLE INFORMATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sampled Date | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
| Sample Id | H430-52055-0621 | H430-51102-0926 | H430-50132-0320 | H430-49303-0539 |
| Lab Date | 24-Feb-22 | 12-Apr-21 | 11-May-20 | 30-Oct-19 |
| Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Comp Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Meter On Fluid | 485 | 1001 | 489 | 1164 |
| Fluid Brand | | | CHEVRON | CHEVRON |
| Fluid Weight | 50 | 50 | 50 | 50 |
| Fluid Type | | | DTF | DTF |
| Fluid Change | N | Y | N | Y |
| Filter Change | N | N | | |
| Kidney Loop | U | U | U | U |

PREVIOUS SAMPLE

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

For additional sample history, go to:

my.cat.com
CONDITION / CONTAMINATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|------------------------------------------|-----------|-----------|-----------|-----------|
| VISCOSITY (CENTISTOKES) ASTM D445 | | | | |
| V100 Viscosity at 100 C | 17.73 | 18.6 | 18.0 | 19.0 |

INFRARED (UFM) ASTM E2412

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|---------------------|-----------|-----------|-----------|-----------|
| ST Soot | 0 | 0 | 0 | 0 |
| OXI Oxidation | 4 | 3 | 3 | 3 |
| SUL Sulfur Products | 16 | 15 | 14 | 12 |
| NIT Nitration | 6 | 5 | 5 | 4 |

WEAR LEVELS / ADDITIVES

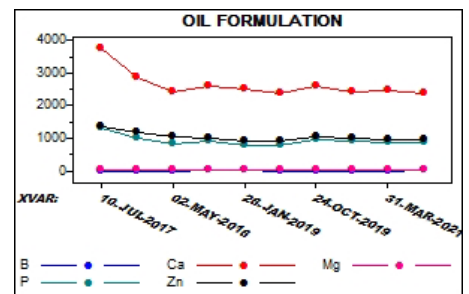
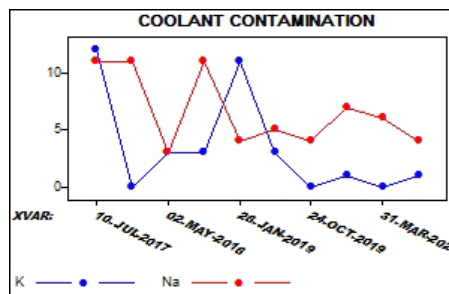
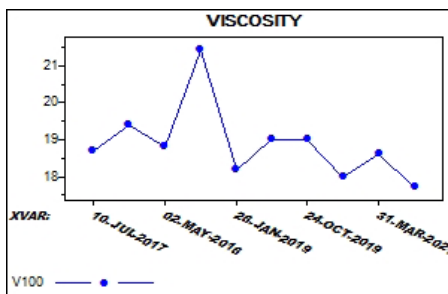
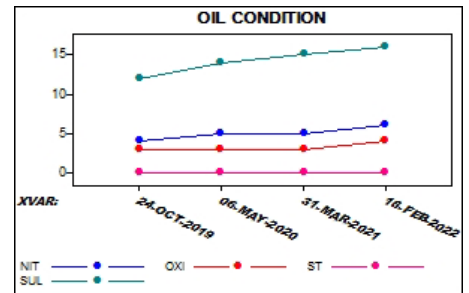
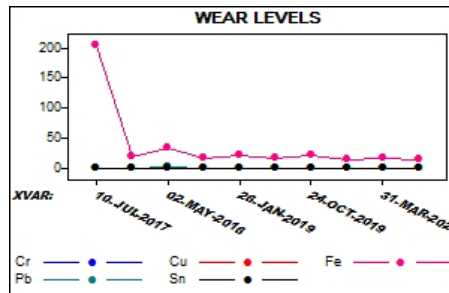
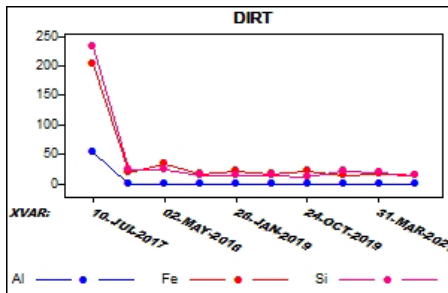
| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT] | | | | |
| Cu Copper | 0 | 0 | 0 | 0 |
| Fe Iron | 13 | 16 | 13 | 20 |
| Cr Chromium | 0 | 0 | 0 | 0 |
| Al Aluminum | 0 | 0 | 0 | 0 |
| Pb Lead | 0 | 0 | 0 | 0 |
| Sn Tin | 0 | 0 | 0 | 0 |
| Si Silicon | 13 | 18 | 20 | 11 |
| Na Sodium | 4 | 6 | 7 | 4 |
| K Potassium | 1 | 0 | 1 | 0 |
| Mo Molybdenum | 2 | 1 | 3 | 0 |
| Ni Nickel | 0 | 0 | 0 | 0 |
| Ag Silver | 0 | 0 | 0 | 0 |
| Ti Titanium | 1 | 0 | 0 | 0 |
| V Vanadium | 0 | 0 | 0 | 0 |
| Ca Calcium | 2390 | 2452 | 2426 | 2591 |
| P Phosphorus | 877 | 850 | 904 | 951 |
| Zn Zinc | 959 | 940 | 1013 | 1032 |
| Mg Magnesium | 23 | 10 | 11 | 6 |
| Ba Barium | 0 | 0 | 0 | 0 |
| B Boron | 7 | 3 | 2 | 0 |
| Sb Antimony | 0 | 0 | 0 | 0 |

WATER

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|---------|-----------|-----------|-----------|-----------|
| W Water | N | N | N | N |

CLEANLINESS

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|--------------------------------------------------------------|-----------|-----------|-----------|-----------|
| PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406 | | | | |
| ISO ISO Code Rating | 18/16 | 18/16 | 20/18 | 19/17 |
| 4μ 4μ | 28890 | 10956 | 20795 | 13144 |
| 6μ 6μ | 1851 | 1777 | 6040 | 2910 |
| 10μ 10μ | 766 | 673 | 3224 | 1464 |
| 14μ 14μ | 594 | 427 | 2467 | 1057 |
| 18μ 18μ | 529 | 347 | 2039 | 844 |
| 21μ 21μ | 492 | 308 | 1843 | 741 |
| 38μ 38μ | 243 | 174 | 844 | 308 |
| 50μ 50μ | 194 | 135 | 598 | 234 |



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>

FINAL DRIVE REAR LEFT
EQUIP NUM: 1217
SERIAL NUMBER: RJS01135
H430-52055-0536

LABEL#: QC

SHOP JOB NUM : 0939528

SAMPLE SHIP TIME (days) : 6

COUNTY SANITATION DIST
. 2 - CALABASAS

RECEIVED DATE: 24-Feb-22

CAT D9T

Monitor Compartment

TRACE LEVELS OF WATER DETECTED (0.1%) MAY BE CONDENSATION. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. RESAMPLE IN 250 HOURS TO MONITOR.

Interp By: Tony Finney
Interpreted On: 25-Feb-22
SAMPLE INFORMATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Date | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
| Sample Id | H430-52055-0536 | H430-51102-0931 | H430-50132-0329 | H430-49303-0423 |
| Lab Date | 24-Feb-22 | 12-Apr-21 | 11-May-20 | 30-Oct-19 |
| Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Comp Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Meter On Fluid | 485 | 1001 | 489 | 1164 |
| Fluid Brand | | | CHEVRON | CHEVRON |
| Fluid Weight | 50 | 50 | 50 | 50 |
| Fluid Type | | | DTF | DTF |
| Fluid Change | N | Y | N | Y |
| Filter Change | N | N | | |
| Kidney Loop | U | U | U | U |

PREVIOUS SAMPLE

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

 For additional sample history, go to: my.cat.com
CONDITION / CONTAMINATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|------------------------------------------|-----------|-----------|-----------|-----------|
| VISCOSITY (CENTISTOKES) ASTM D445 | | | | |
| V100 Viscosity at 100 C | 19.12 | 16.8 | 19.5 | 18.5 |

INFRARED (UFM) ASTM E2412

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|---------------------|-----------|-----------|-----------|-----------|
| ST Soot | 0 | 0 | 0 | 0 |
| OXI Oxidation | 4 | 3 | 3 | 3 |
| SUL Sulfur Products | 15 | 15 | 14 | 12 |
| NIT Nitration | 7 | 5 | 5 | 4 |

WEAR LEVELS / ADDITIVES

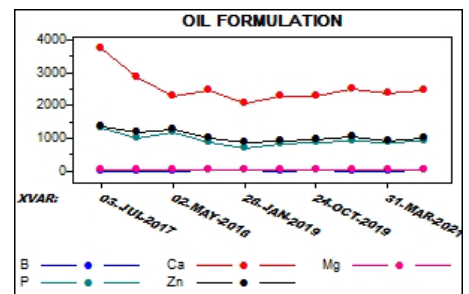
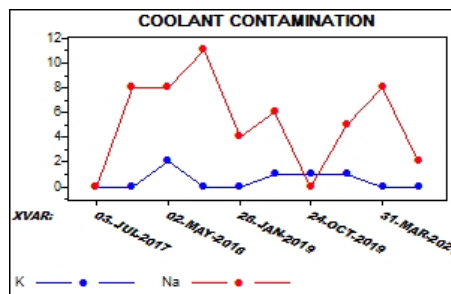
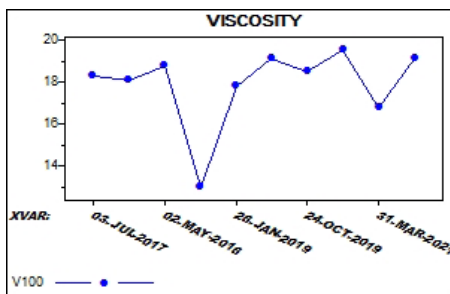
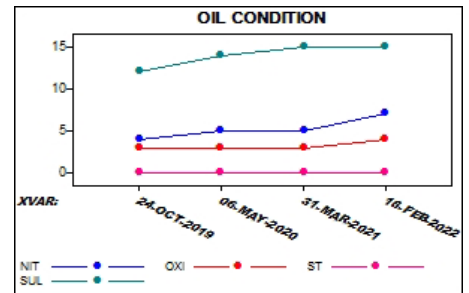
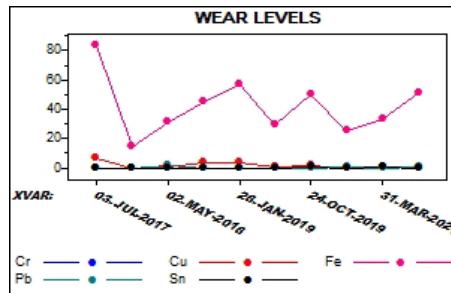
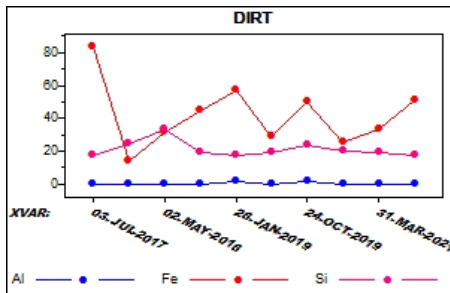
| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT] | | | | |
| Cu Copper | 1 | 0 | 0 | 2 |
| Fe Iron | 51 | 33 | 25 | 50 |
| Cr Chromium | 0 | 1 | 0 | 1 |
| Al Aluminum | 0 | 0 | 0 | 1 |
| Pb Lead | 1 | 0 | 1 | 0 |
| Sn Tin | 0 | 1 | 0 | 1 |
| Si Silicon | 17 | 19 | 20 | 23 |
| Na Sodium | 2 | 8 | 5 | 0 |
| K Potassium | 0 | 0 | 1 | 1 |
| Mo Molybdenum | 2 | 4 | 2 | 1 |
| Ni Nickel | 0 | 1 | 0 | 1 |
| Ag Silver | 0 | 0 | 0 | 8 |
| Ti Titanium | 0 | 0 | 0 | 2 |
| V Vanadium | 0 | 0 | 0 | 1 |
| Ca Calcium | 2430 | 2360 | 2509 | 2287 |
| P Phosphorus | 904 | 843 | 908 | 883 |
| Zn Zinc | 991 | 900 | 1033 | 957 |
| Mg Magnesium | 22 | 18 | 11 | 9 |
| Ba Barium | 0 | 0 | 0 | 1 |
| B Boron | 8 | 2 | 2 | 5 |
| Sb Antimony | 0 | 0 | 0 | 0 |

WATER

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|---------|-----------|-----------|-----------|-----------|
| W Water | T | N | N | N |

CLEANLINESS

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|--------------------------------------------------------------|-----------|-----------|-----------|-----------|
| PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406 | | | | |
| ISO ISO Code Rating | H2O | 19/16 | 18/16 | 18/16 |
| 4μ 4μ | | 23116 | 20104 | 12067 |
| 6μ 6μ | | 3070 | 2252 | 1450 |
| 10μ 10μ | | 998 | 801 | 552 |
| 14μ 14μ | | 591 | 578 | 361 |
| 18μ 18μ | | 464 | 476 | 288 |
| 21μ 21μ | | 396 | 429 | 254 |
| 38μ 38μ | | 202 | 198 | 141 |
| 50μ 50μ | | 163 | 145 | 105 |



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>

TRANSMISSION
EQUIP NUM: 1217
SERIAL NUMBER: RJS01135
H430-52055-0618

LABEL#: QC

SHOP JOB NUM : 0939528

SAMPLE SHIP TIME (days) : 6

COUNTY SANITATION DIST
. 2 - CALABASAS

RECEIVED DATE: 24-Feb-22

CAT D9T

No Action Required

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Interp By: Tony Finney
Interpreted On: 25-Feb-22
SAMPLE INFORMATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Date | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
| Sample Id | H430-52055-0618 | H430-51102-0925 | H430-50132-0318 | H430-49303-0419 |
| Lab Date | 24-Feb-22 | 12-Apr-21 | 11-May-20 | 30-Oct-19 |
| Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Comp Meter [Hr] | 19495 | 19010 | 18498 | 18009 |
| Meter On Fluid | 485 | 1001 | 489 | 1164 |
| Fluid Brand | | | CHEVRON | CHEVRON |
| Fluid Weight | 10W | 30 | 30 | 30 |
| Fluid Type | | | DTF | DTF |
| Fluid Change | N | Y | N | Y |
| Filter Change | Y | Y | Y | Y |
| Kidney Loop | U | U | U | U |

WEAR LEVELS / ADDITIVES

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|-------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT] | | | | |
| Cu Copper | 9 | 10 | 11 | 19 |
| Fe Iron | 18 | 14 | 15 | 11 |
| Cr Chromium | 0 | 0 | 0 | 0 |
| Al Aluminum | 0 | 0 | 0 | 0 |
| Pb Lead | 6 | 2 | 6 | 9 |
| Sn Tin | 0 | 0 | 0 | 1 |
| Si Silicon | 4 | 3 | 7 | 4 |
| Na Sodium | 4 | 9 | 7 | 3 |
| K Potassium | 0 | 0 | 1 | 1 |
| Mo Molybdenum | 5 | 3 | 2 | 1 |
| Ni Nickel | 1 | 0 | 1 | 0 |
| Ag Silver | 0 | 0 | 0 | 0 |
| Ti Titanium | 1 | 1 | 1 | 0 |
| V Vanadium | 0 | 0 | 0 | 0 |
| Ca Calcium | 2718 | 2698 | 2919 | 2777 |
| P Phosphorus | 945 | 944 | 1057 | 988 |
| Zn Zinc | 1073 | 1016 | 1178 | 1074 |
| Mg Magnesium | 32 | 26 | 25 | 13 |
| Ba Barium | 0 | 0 | 0 | 0 |
| B Boron | 8 | 9 | 12 | 6 |
| Sb Antimony | 0 | 0 | 0 | 0 |

PREVIOUS SAMPLE

ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

 For additional sample history, go to: my.cat.com
CONDITION / CONTAMINATION

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|------------------------------------------|-----------|-----------|-----------|-----------|
| VISCOSITY (CENTISTOKES) ASTM D445 | | | | |
| V100 Viscosity at 100 C | 10.61 | 12.8 | 9.7 | 11.5 |
| INFRARED (UFM) ASTM E2412 | | | | |
| ST Soot | 0 | 0 | 0 | 0 |
| OXI Oxidation | 4 | 4 | 3 | 3 |
| SUL Sulfur Products | 16 | 16 | 14 | 12 |
| NIT Nitration | 5 | 5 | 4 | 4 |

WATER

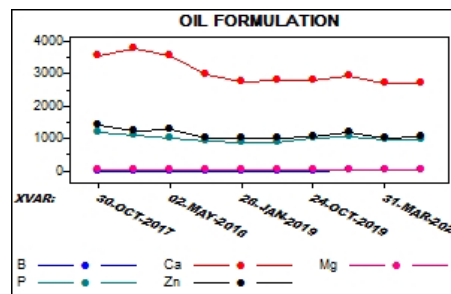
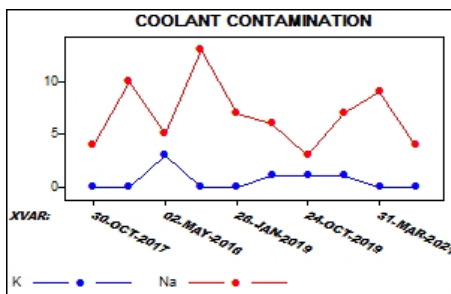
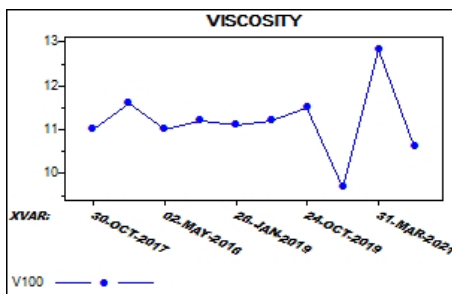
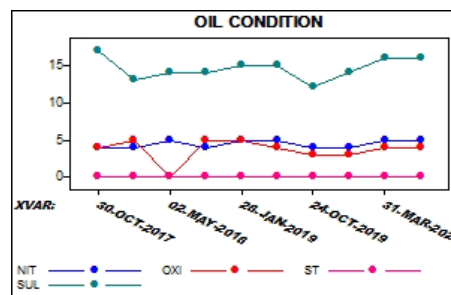
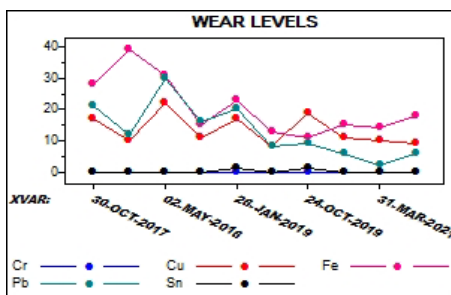
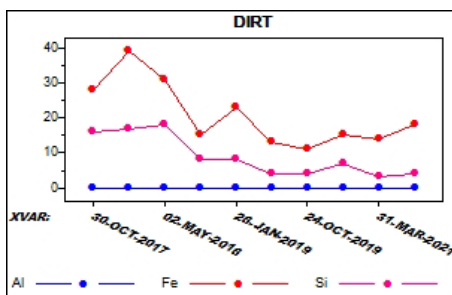
| | | | | |
|---------|---|---|---|---|
| W Water | N | N | N | N |
|---------|---|---|---|---|

ANTIFREEZE

| | | | | |
|--------------|---|---|---|---|
| A Antifreeze | N | N | N | N |
|--------------|---|---|---|---|

CLEANLINESS

| | 18-Feb-22 | 31-Mar-21 | 06-May-20 | 24-Oct-19 |
|--------------------------------------------------------------|-----------|-----------|-----------|-----------|
| PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406 | | | | |
| ISO ISO Code Rating | 18/17 | 16/15 | 19/17 | 18/17 |
| 4μ 4μ | 35545 | 4570 | 21489 | 5364 |
| 6μ 6μ | 1852 | 526 | 3601 | 2369 |
| 10μ 10μ | 1083 | 338 | 1112 | 1132 |
| 14μ 14μ | 930 | 287 | 849 | 663 |
| 18μ 18μ | 868 | 265 | 742 | 488 |
| 21μ 21μ | 827 | 251 | 689 | 420 |
| 38μ 38μ | 479 | 159 | 356 | 189 |
| 50μ 50μ | 320 | 123 | 265 | 137 |



Report Comment

Our sample reports has been updated! For more information on the new report, go to - <https://www.youtube.com/watch?v=4h8bREJVUrs>

ENGINE
EQUIP NUM: 1217
SERIAL NUMBER: RJS01135
CAT D9T
COMP SERIAL NUM: RHX06530
Monitor Compartment
Interp By: Tony Finney
Interpreted On: 25-Feb-22
H430-52055-0206

LABEL#: QC

SHOP JOB NUM : 0939528

SAMPLE SHIP TIME (days) : 6

COUNTY SANITATION DIST
. 2 - CALABASAS

RECEIVED DATE: 24-Feb-22



LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 100 HOURS TO MONITOR.

SAMPLE INFORMATION

| | 18-Feb-22 | 21-Oct-21 | 31-Mar-21 | 11-Sep-20 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Date | 18-Feb-22 | 21-Oct-21 | 31-Mar-21 | 11-Sep-20 |
| Sample Id | H430-52055-0206 | H430-51301-0607 | H430-51102-0401 | H430-50265-0306 |
| Lab Date | 24-Feb-22 | 28-Oct-21 | 12-Apr-21 | 21-Sep-20 |
| Meter [Hr] | 19495 | 19251 | 19010 | 18742 |
| Comp Meter [Hr] | 19495 | 19251 | 19010 | 18742 |
| Meter On Fluid | 244 | 241 | 268 | 244 |
| Fluid Brand | PHILLIPS66 | PHILLIPS66 | PHILLIPS66 | PHILLIPS66 |
| Fluid Weight | 15W-40 | 15W-40 | 15W-40 | 15W-40 |
| Fluid Type | | | | |
| Fluid Change | Y | Y | Y | Y |
| Filter Change | Y | Y | Y | Y |
| Kidney Loop | U | U | U | U |

WEAR LEVELS / ADDITIVES

| | 18-Feb-22 | 21-Oct-21 | 31-Mar-21 | 11-Sep-20 |
|-------------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT] | | | | |
| Cu Copper | 7 | 5 | 4 | 6 |
| Fe Iron | 31 | 21 | 23 | 31 |
| Cr Chromium | 1 | 0 | 0 | 1 |
| Al Aluminum | 1 | 0 | 0 | 0 |
| Pb Lead | 11 | 7 | 4 | 8 |
| Sn Tin | 0 | 0 | 0 | 0 |
| Si Silicon | 6 | 6 | 10 | 4 |
| Na Sodium | 0 | 8 | 0 | 0 |
| K Potassium | 0 | 0 | 1 | 1 |
| Mo Molybdenum | 94 | 90 | 71 | 71 |
| Ni Nickel | 0 | 1 | 0 | 0 |
| Ag Silver | 0 | 0 | 0 | 0 |
| Ti Titanium | 0 | 0 | 0 | 0 |
| V Vanadium | 0 | 0 | 0 | 0 |
| Ca Calcium | 2797 | 2630 | 2046 | 2807 |
| P Phosphorus | 1427 | 1581 | 1299 | 1378 |
| Zn Zinc | 1542 | 1753 | 1435 | 1497 |
| Mg Magnesium | 477 | 586 | 451 | 517 |
| Ba Barium | 0 | 0 | 0 | 0 |
| B Boron | 101 | 135 | 118 | 92 |
| Sb Antimony | 0 | 1 | 0 | 0 |

PREVIOUS SAMPLE

| LEAD ANALYSIS FOR DEBRIS: | IS READINGS | ELEVATED APPEAR | AND INDICATE NORMAL | MAY BEARING CUT | INDICATE OPEN | BEARING WEAR. FILTER(S) | AND INSPECT | OTHER |
|-----------------------------------|-------------|-----------------|---------------------|-----------------|---------------|-------------------------|-------------|-------|
| RESAMPLE IN 250 HOURS TO MONITOR. | | | | | | | | |

 For additional sample history, go to: my.cat.com
CONDITION / CONTAMINATION

| | 18-Feb-22 | 21-Oct-21 | 31-Mar-21 | 11-Sep-20 |
|------------------------------------------|-----------|-----------|-----------|-----------|
| VISCOSITY (CENTISTOKES) ASTM D445 | | | | |
| V100 Viscosity at 100 C | 15.38 | 15.1 | 14.8 | 15.2 |
| INFRARED (UFM) ASTM E2412 | | | | |
| ST Soot | 30 | 9 | 16 | 20 |
| OXI Oxidation | 23 | 18 | 19 | 19 |
| SUL Sulfur Products | 27 | 23 | 26 | 28 |
| NIT Nitration | 11 | 8 | 9 | 9 |

WATER

| | | | | |
|---------|---|---|---|---|
| W Water | N | N | N | N |
|---------|---|---|---|---|

ANTIFREEZE

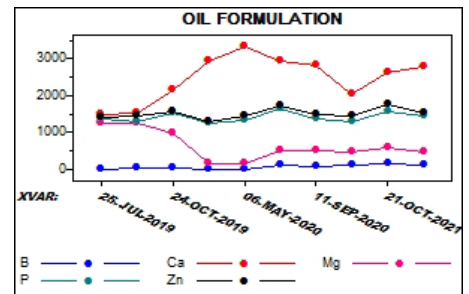
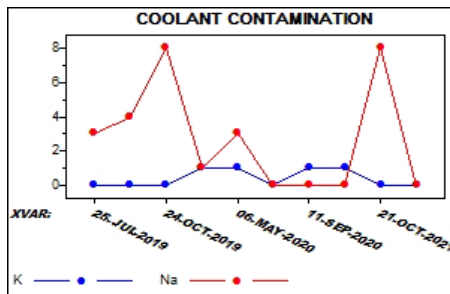
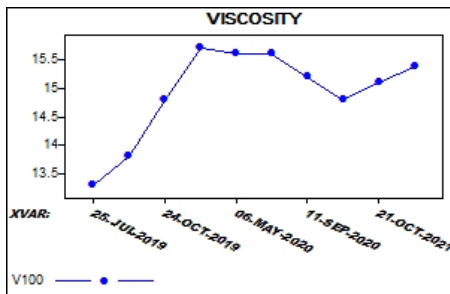
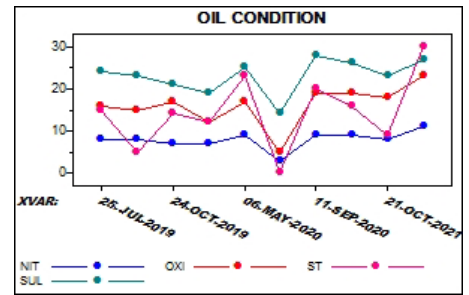
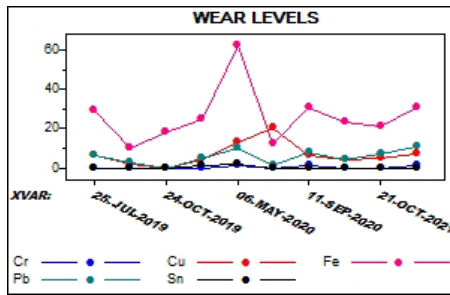
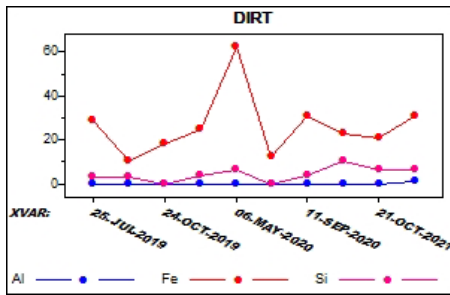
| | | | | |
|--------------|---|---|---|---|
| A Antifreeze | N | N | N | N |
|--------------|---|---|---|---|

FUEL

| | | | | |
|--------|---|---|---|---|
| F Fuel | N | N | N | N |
|--------|---|---|---|---|

FUEL CONTENT (%) ASTM D3524

| | | | | |
|------------------|------|------|------|------|
| PFc Percent Fuel | 3.29 | 5.45 | 5.13 | 2.90 |
|------------------|------|------|------|------|



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